# **ARNAV KUMAR**

Address: 3C - 02 - 04, 52 Nanyang Walk, Singapore - 639928 E-Mail: arnav1@e.ntu.edu.sg | arnavkumar24@gmail.com Phone: +65 8499 8569 | GitHub: radzinzki | LinkedIn | Site

#### **Education**

Nanyang Technological University

Aug 2010 - Jun 2014

- B. Eng. (Hons.) in Computer Science with a GPA of 4.75/5.
- Minor in Business, Specialization in Intelligent Systems (expected).
- Dean's List Academic Year 2012-13
- Awarded **President's Research Scholarship** offered to the top 5% of the cohort.
- Awarded full scholarship for university education.
- Represented NTU in International Collegiate Programming Competition (ACM-ICPC)
   Regionals 2011 held in Kuala Lumpur as a part of a 18 member contingent.

**St. James' School** Graduated in May 2010

- Indian School Certification (ISC) 91%. (A Level Equivalent)
- Indian School Certificate Examination Result (ICSE) 94%. (O Level Equivalent)

## **Work Experience**

**IBM Corporation** Software Engineering Intern

May 2013 - Aug 2013

• Developed core components for a mobile port of IBM Security Access Manager for Enterprise Single Sign - On (ISAM-ESSOm) for providing single sign - on capabilities on the iOS platform for enterprise productivty. [App Store link]

• Built the fully-featured, extensible, UIWebView - based embedded browser which provides Web single sign - on capabilities within the App.

**IBM Corporation**Software Engineering
Intern
Jun 2012 - Dec 2012

- Development Prototyped new mobile solutions aimed at enhancing user experience and security of sensitive user information. This evolved into ISAM-ESSOm.
- Quality Assurance Configuration and troubleshooting server side components of a new solution for Privileged Identity Management. Automated the user-creation process during load-testing, reducing time required at this stage by 66%.

## **Project Work**

**Final Year Project** Aug 2013 - Present

Data Mining Aug 2013 - Oct 2013

Natural Language Processing Aug 2013 - Oct 2013

Software Engineering Jan 2013 - May 2013

**Pet Projects** 

- Developing an app demonstrating interaction with real environments virtually.
- Interfacing a Kinect, an iPhone, and a projector with a server to process motion.
- Led a team of 6 to develop an application (with a Django backend) to generate a timeline for the flow of Twitter hashtags across the globe and track local trends. [source]
- Developed an application (with a Java + Flask backend) to summarize and analyse the sentiment of Twitter users about a subjects after extracting descriptive phrases from related tweets. [source]
- Led a team of 6 develop dBauggle, an iOS word-game for children with special needs, built using the cocos2d framework. (1000+ downloads) [App Store link]
- **Pebble Music Tweeter** Watchapp + iOS app using the Twitter API, Last.FM API and Pebble SDK to tweet music info from the watch. [App Store link] [source] (600+ downloads)
- **Heal the World** A game to educate people about world issues and a platform to connect them with agencies if they want to volunteer. Built using Meteor.js. [source][game]

#### **Skills and Coursework**

Relevant Courses

 Object Oriented Programming & Data Structures, Software Engineering, Database Systems, Operating Systems, Algorithms, Advanced Algorithms, Artificial Intelligence, Natural Language Processing, Data Mining.

**Technical Skills** 

Java, Objective-C, Python, Javascript, HTML/CSS and others.

#### **Interests and Extra - Curricular Activities**

Extra - Curricular Activities

- President NTU Open Source Society Headed the management committee of the special interest club that promotes the hacker culture. (AY2012-13)
- IT (Media) Officer Computer Engineering Club (Student Council of the School) Steered the annual branding initiative, redesigned the School's publication (quadrupled reach to 2000) and organised the school's first Hackathon. (AY2012-13)

Interests

- Reading, Writing, Sports (football, rugby). Played Rugby competitively for 8 years.
- Member of the NTU Rugby Squad between Sept 2010 and Aug 2011.